



## **WATER MANAGEMENT DIVISION MONTHLY REPORT**

### **Information Exchange Bulletin**

**Vol. No. 00 – 8**

**Date: 20 September 2000**

Prepared by: U.S. Army Engineer Division,  
Great Lakes and Ohio River, PO Box 1159,  
Cincinnati, OH 45201-1159

### **RESERVOIR OPERATION AND SYSTEM STATUS FOR AUGUST 2000**

**HIGHLIGHTS** – Cairo began the month at 17.5', crested at 24.5' on the 12th, and ended at 16.9'. Normal stage for August is 17 feet.

**WEATHER** –The weather during August was quite mixed over the basin. Temperatures were warmer than normal to the west and south of Cincinnati, and cooler than normal to the east of Cincinnati. Western Tennessee had well above normal temperatures. Precipitation for the month was well above normal in southern Illinois and southern Indiana with nearly twice the expected rainfall for much of that area. Rainfall was generally above normal in West Virginia and Virginia. Ohio and Pennsylvania observed spotty areas of rainfall with some areas dry and others wet. Tennessee was well below in observed rainfall with the driest areas in western Tennessee.

The following table summarizes temperature and precipitation for August:

#### **TEMPERATURE AND PRECIPITATION – AUGUST 2000**

	<b>TEMPERATURE</b>		<b>PRECIPITATION</b>	
<b>STATION</b>	<b>OBSERVED DEGREES F</b>	<b>DEPARTURE FROM NORMAL</b>	<b>OBSERVED INCHES</b>	<b>DEPARTURE FROM NORMAL</b>
Pittsburgh, PA	69.1	-1.4	3.66	+0.45
Charleston, WV	71.8	-2.1	4.35	+0.34
Columbus, OH	71.3	-0.2	4.10	+0.38
Cincinnati, OH	72.3	-1.2	2.90	-0.45
Louisville, KY	77.5	+1.7	2.87	-0.67
Indianapolis, IN	73.6	+0.4	4.26	+0.62
Evansville, IN	76.3	+0.2	4.35	+2.49
Nashville, TN	79.8	+1.7	1.95	-1.51

**STREAMFLOW** -- Ohio River monthly average flows for August ranged from a low of 89 percent of normal at Louisville, KY to a high of 191 percent of normal at Pittsburgh, PA. Daily flows ranged from a low of 68 percent of normal at Cincinnati, OH to a high of 807 percent of normal at Pittsburgh, PA.

The following table presents the flow data summary for August at the Ohio River Index Stations:

**FLOW DATA – AUGUST 2000**

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
	CUBIC FEET/SECOND		HIGH	LOW
Pittsburgh, PA	22,737	191	807	80
Huntington, WV	46,484	153	355	72
Cincinnati, OH	53,677	151	316	68
Louisville, KY	63,871	89	325	72
Evansville, IN	65,968	141	288	75
Paducah, KY	134,610	121	206	72

**RESERVOIRS** -- August started with 1.0% utilization of the total system flood control storage and ended the month at 0.6%. System-wide augmentation storage decreased from 97.1% at the beginning of the month to 95.9% by the end of the month. Significant flood storage utilization in excess of 25% occurred at two reservoir projects during August: 26.6% at Stonewall Jackson and 29.9% at Burnsville.

The following table depicts storage change by tributary reservoir subsystem for August:

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	-69,200
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-800
Twelvepole-Big Sandy-Little Sandy-Scioto	-4,400
Little Miami-Licking-Mill Creek-Great Miami	-1,700

Kentucky-Salt-Green-Wabash	-11,900
Cumberland	-766,300
<b>TOTAL</b>	<b>-854,300</b>

RONALD A. YATES, P.E.  
Chief, Technical Engineering & Construction Division